



ENGINEERS &
GEOSCIENTISTS
BRITISH COLUMBIA

Geoscience Registration

University of Victoria (Webinar)

September 14, 2022

OVERVIEW

2 SECTION TITLE



ENGINEERS &
GEOSCIENTISTS
BRITISH COLUMBIA

WHO ARE WE?

We regulate the practice of engineering and geoscience.

We set and maintain high standards of practice for these professions.

We ensure applicants have met academic and experience requirements before they can practice.

We ensure public safety and confidence in the geoscience/engineering profession.



PROFESSIONAL GOVERNANCE ACT

- The PGA establishes a consolidated framework for professional regulators in the natural and built environment.
- Improves public safety and confidence in the geoscience/engineering profession.
- Requirements to maintain professional registration:
 - Updated Code of Ethics
 - Mandatory Continuing Education
 - Firm Regulation

<https://www.egbc.ca/About/Governance/Professional-Governance-Act>

STUDENT PROGRAM

AS A STUDENT, YOU:

Have access to networking events to help your career.

Are eligible for scholarships and Student Team Funding.

Can access the same resources as professional registrants.

<https://www.egbc.ca/Registration/Programs-Resources/Student-Program/Student-Program-Registration>



GEOSCIENTIST-IN-TRAINING

AS A GIT, YOU:

Require supervision by a professional geoscientist.

Demonstrate academic qualification and professional intent.

Have access to registrant-only program, courses and services

<https://www.egbc.ca/Registration/Individual-Registrants/How-to-Apply/Members-in-Training/GIT-First-Time-Applying-in-Canada>



PROFESSIONAL GEOSCIENTIST

AS A P.GEO., YOU:

Abide by the Code of Ethics.

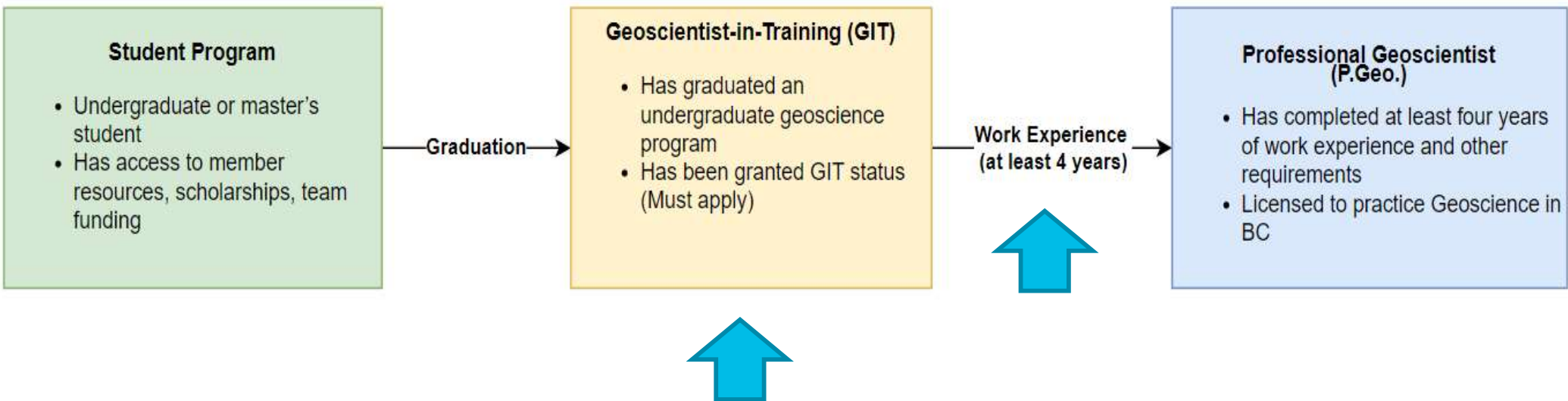
Take full responsibility for your work (and others)

Are allowed to call yourself a professional geoscientist.

<https://www.egbc.ca/Registration/Individual-Registrants/How-to-Apply/Professional-Membership-and-Licence/Geoscientist-First-Time-Applying-in-Canada>



TYPICAL REGISTRANT TIMELINE



REGISTRATION REQUIREMENTS



Geoscientist-in-Training (GIT)

ACADEMIC REQUIREMENTS

Applicants must have:

- Graduated from a 4-year bachelor's degree in applied science, geoscience, engineering, science or technology.
- No more than 9 missing topics from the geoscience [Self-Evaluation Checklist](#) for the discipline of application.
- Application Disciplines:

Geology

Environmental
Geoscience

Geophysics

HOW TO APPLY FOR GIT

The following are required:

Transcripts (sent directly from institution)

Course descriptions (only for non-BC institutions)

Self-Evaluation Checklist



PLANNING YOUR COURSES

During undergraduate program, it is recommended that you cover off as many of the course requirements as possible.

If you have not already done so, please refer to the [Self-Evaluation Checklist](#) for your university and specialization.

The checklists will allow you to track your progress and monitor whether you have all the required topics to be considered academically qualified upon graduation.

MISSING TOPICS

An academic assessment will determine whether you have adequately completed the topic requirements outlined for the discipline you are applying for.

It may be determined that you are deficient in certain topics on the checklist. If this is the case, you will be notified which topics you do not have coverage for.

Topics identified as missing will need to be satisfied either by taking an approved course equivalent or by challenging examinations.

EQUIVALENT COURSES

It is possible to complete courses you do not have coverage of if:

The course is an approved course already listed on an institution's checklist

The course is approved by our Geoscience Subcommittee (Course code and description would need to be provided)

* Note that some courses can be online and from different institutions



EXAMINATIONS

Exam sessions are held biannually

- All exams are self-study (you are told the recommended textbook and provided with any supplementary study material)
- Exams are 3 hours in length and can be open or closed book
- Two exam sessions per year May-July (Spring/Summer) and October-December (Fall)
- Exams are computer-based and held virtually



COVID-19 MEASURES

- Interim grading arrangements
 - Until further notice, academic credentials that are awarded since May/June 2020 will be accepted as long as failures in required courses have been made up by a pass or credit.
- Field Techniques alternatives due to pandemic
 - Pandemic impacted ability to engage in field work outside of classroom
 - May be able to use work experience in lieu (equivalent to 12 days)
 - [Guidance available](#) (see link)

Competency-Based Assessment

Gaining Experience Towards
Your P.Ge.

COMPETENCY-BASED ASSESSMENT

- Experience assessment is required for P.Geo. Registration (not required to become a GIT)
- Demonstrate 29 Work Experience Competencies required for registration using [Competency Assessment System](#).
- Requires validation from individuals who have direct, personal and professional knowledge of the applicant and the examples they have been asked to validate.
- Applicants are asked to assess their level of competency for each competency provided on a six-point rating scale (0-5).

<https://competencyassessment.ca>

COMPETENCY-BASED ASSESSMENT

- If you are a GIT, you can gain access to the Competency Assessment System and can save examples as you gain experience over the 4+ years
 - Helps you keep track of your experience progress and plan ahead for your career
 - Allows you to get referee/validator feedback earlier (especially useful if you change employers)
 - Makes it easier to discuss with your supervisor/employer the professional skills and knowledge that you need

<https://competencyassessment.ca>

PRE-GRADUATE/POST-GRADUATE EXPERIENCE

- Up to a maximum of 1-year of pre-graduation or co-op experience may be accepted if it is supervised by the appropriate professional and if it otherwise satisfies all experience criteria detailed by Engineers and Geoscientists BC.
- Applicants with post-graduate degrees may be given credit for geoscience experience gained as part of their post-graduate studies. Credit may vary depending on review (typically up to 1-year for Master's (thesis-based programs) or up to 2 years for PhD programs).

LAW AND ETHICS

- Prior to professional registration, applicants must complete:
 - The [Professional Practice Examination](#), and
 - the [Professional Engineering and Geoscience Practice in BC Online Seminar](#).
- You can complete the exam and online seminar while you are a GIT



Additional Information/Resources

BENEFITS OF REGISTRATION

GIT	P.GEO.
<ul style="list-style-type: none">✓ Gain access to registrant-only program, courses and services✓ Gain access to the Competency Assessment System and start reporting experience✓ Confirmation that you have met the minimum academic requirements✓ Ability to engage in volunteer with other professionals	<ul style="list-style-type: none">✓ Recognition to the general public that you are an expert & professional in your field of practice✓ Dedication to professional growth✓ Opportunities to be involved in regulatory activities and sharing your expert knowledge (committees, advisory groups, panels)✓ Support peers and future generation of registrants by providing mentorship, reference, and oversight

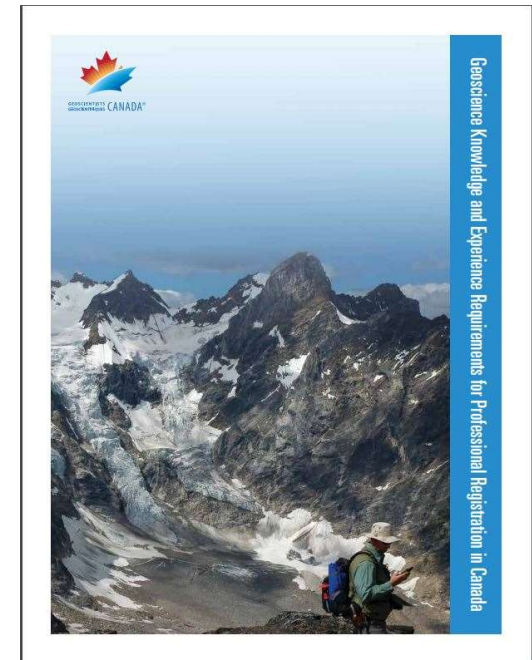
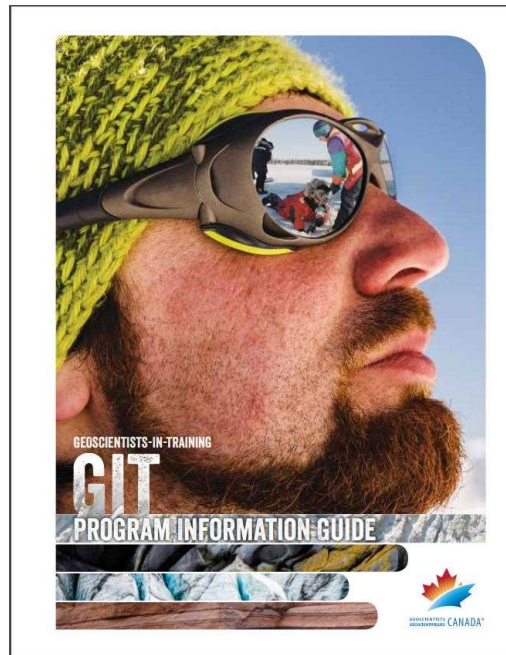
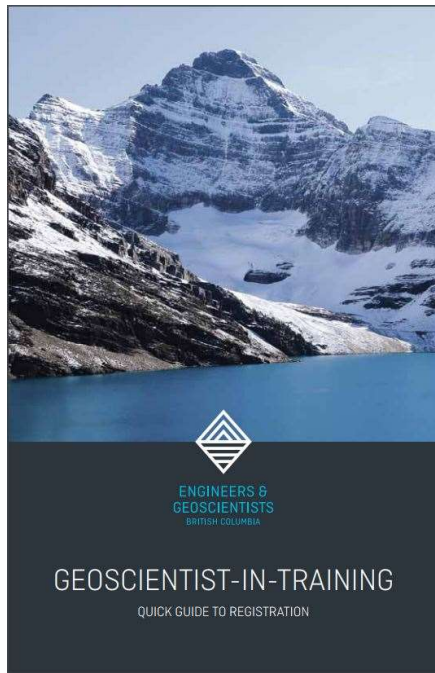
EQUITY, DIVERSITY AND INCLUSION (EDI)

- EGBC initiatives
 - [Human Rights and Diversity Professional Practice Guidelines](#)
 - [Courses on Workplace Cultural Safety](#)
 - 30 By 30 (Engineers Canada)
 - Women in Engineering and Geoscience Division
 - The Women in Engineering and Geoscience Division is open to all registrants who are interested in supporting the connection, attraction, promotion, retention, and advocacy for women in engineering and geoscience.
 - Partnerships with EDI projects

TRUTH AND RECONCILIATION

- Commitment to advancing five recommendations from the Truth and Reconciliation Commission's 94 Calls to Action
 - Education, Language and Culture, Professional Development and Training for Public Servants, Missing Children and Burial Information, Business and Reconciliation
- Webinars/Courses
 - [4 Seasons of Reconciliation – Indigenous Awareness Learning](#)
 - [Land Acknowledgments for Engineers and Geoscientists](#)
 - [An Introduction to the United Nations Declaration on the Rights of Indigenous Peoples: Making the Declaration Law in Canada](#)
 - [The Value of Indigenous Engagement on Engineering and Geoscience Projects](#)
- Professional Practice Guidelines
 - <https://www.egbc.ca/About/Programs-Initiatives/Equity-Diversity-Inclusion/Truth-Reconciliation>

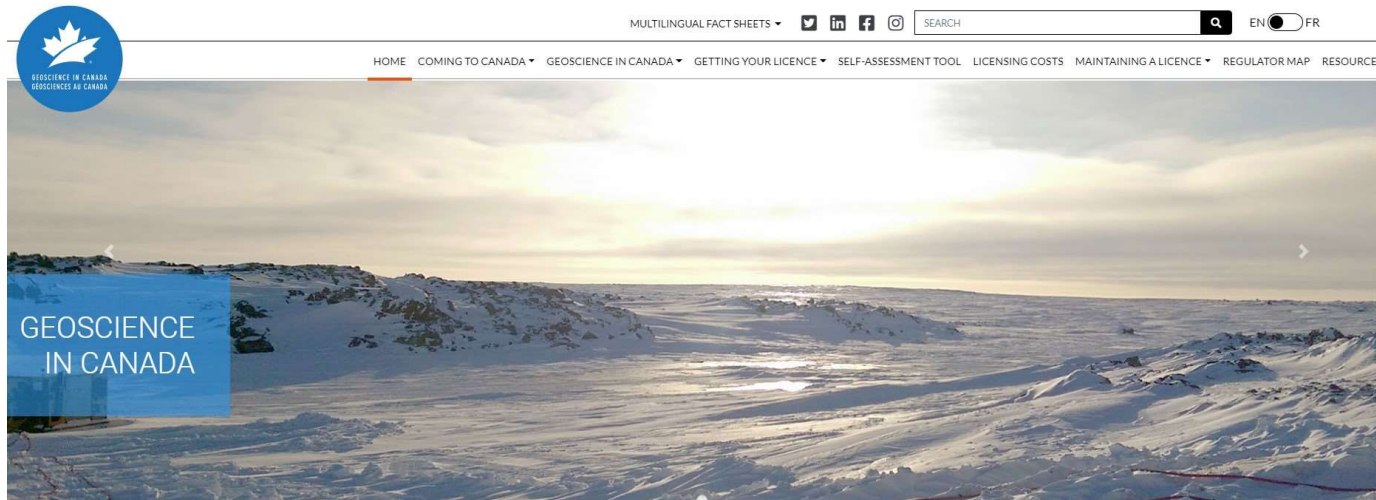
REFERENCE MATERIAL



The images above are clickable links

GEOSCIENCE IN CANADA WEBSITE

- Launched by Geoscientists Canada (www.geoscienceincanada.ca)
- Contains resources and information for the profession across Canada



Considering work as a geoscientist in Canada?

Whether educated in Canada or in another country, this site is for you! It contains lots of information on getting licensed in Canada as a professional geoscientist. Plus, there is a tool that allows you to do your own preliminary assessment of your training and your experience as a geoscientist compared with typical Canadian professional registration requirements.



THANK YOU

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